In re application of: Ted A. Loxley

Serial No.:

Group No.

Filed: Jan. 2000

Examiner:

For Process and Apparatus for Cleaning Silicon Wafers

Commissioner of Patents and Trademarks

Washington, D.C. 20231

VERIFIED CERTIFICATION OF MAILING DATE (37 CFR 1.10(c))

I hereby certify that I have, in accordance referred to below	with 37 CFR 1.10, deposited the papers or fees
new application transmittal and page	apers noted therein
filing under 37 CFR 1.60 and paper	ers noted therein
file wrapper continuing application	(FWC) 37 CFR 1.62 and papers noted therein
other	
	a copy of these papers or fees identified above United States Postal Service on the date of "Express Mail Post Office to Addressee" bearge, as shown on the attached copy of
all statements made on information and be these statements were made with the know	herein of my own knowledge are true and that elief are believed to be true; and further that dedge that willful false statements and the like nent, or both, under Section 1001 of Title 18 of false statements may jeopardize the validity of Vincent A. Greene
•	(Typed or printed name of person making this verified
	statement)
Date Jonney 2-2, 2000	Uncent a Theene

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Practitioner's Docket No.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Ted A. Loxley

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

Process and Apparatus for Cleaning Silicon Wafers

CERTIFICATION UNDER 37 C.F.R. 1.10° (Express Mail label number is mandatory.) (Express Mail cartification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 22, 200, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EK216390 975 addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Vincent A. Greene

(type, or/print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Application Transmittal [4-1]—page 1 of 11)





1. Type of Application

This new application is for a(n)

(check one applicable item below)

×	,	Original (nonprovisional)
		Design
	ĺ	☐ Plant
WARNIN	IG:	Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation of continuation-in-part application.
WARNIN	IG:	Do not use this transmittal for the filing of a provisional application.
	TR	ne of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION ANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
		Divisional.
	1	Continuation.
	Ì	Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of unerica. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
 - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

(Application Transmittal [4-1]—page 2 of 11)





(Application Transmittal [4-1]—page 3 of 11)

WARNING:	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
. Paper	s Enclosed
(Des	uired for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 sign) Application
\sim	ages of specification
Pa	ages of claims
_ <u></u> Sr	neets of drawing.
WARNING.	DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 CFR 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).
in: the on	dentifying indicia, if provided, should include the application number or the title of the invention, ventor's name, docket number (if any), and the name and telephone number of a person to call if a Office is unable to match the drawings to the proper application. This information should be placed the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top the page * 37 C.F.R. 1.84(c)).
	(complete the following, if applicable)
	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).
` 🗆	formal
X	informal
B. Oth	er Papers Enclosed
	ages of declaration and power of attorney
/_ Pa	ages of abstract
0	ther
i. Additi	onal papers enclosed
	Amendment to claims
	Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
	Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
	Preliminary Amendment
	Information Disclosure Statement (37 C.F.R. 1.98)
	Form PTO-1449 (PTO/SB/08A and 08B)
	Citations





		Dec	laration o	f Biological Deposit
	3	pert		f "Sequence Listing," computer readable copy and/or amendment ereto for biotechnology invention containing nucleotide and/or equence.
		Auth tive	norization	of Attomey(s) to Accept and Follow Instructions from Representa-
		Spe	cial Comi	ments
E		Oth	er	
Dec	cla	ratio	n or oath	(including power of attorney)
OTE:	th b) at th b) bid pt	ne priory all o oplicat ne sign y a sta eing fi eclarat erson	r nonprovisi r fewer than ion being fil lature or an i itement requi iled. If the o tion must be under § 1.4	declaration is not required in a continuation or divisional application provided that is application contained a declaration as required, the application being filed is all the inventors named in the prior application, there is no new matter in the led, and a copy of the executed declaration filed in: the prior application (showing indication thereon that it was signed) is submitted. The copy must be accompanied sesting deletion of the names of person(s) who are not inventors of the application declaration in the prior application was filed under § 1.47, then a copy of that filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning if has subsequently joined in a prior application, then a copy of the subsequently in must be filed. See 37 C.F.R. §§ 1.63(d)(1)—(3).
OTE:	is al	direct bbrevia ountry	ed, identify of ation togeth	to complete an application must be executed, identify the specification to which it each inventor by full name including family name and at least one given name, without er with any other given name or initial, and the residence, post office address and tip of each inventor, and state whether the inventor is a sole or joint inventor. 37 (4).
	X.	Enc	losed	
		Exe	cuted by	Ted A .Loxley
				(check all applicable boxes)
		X	inventor(s).
			legal rep	resentative of inventor(s). 1.42 or 1.43.
			interest o	entor or person showing a proprietary on behalf of inventor who refused to sign of the reached.
				This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.
		Not	Enclosed	i.
OTE:	th m	ne U.S nay be	. application treated as	a completion in the U.S. of an International Application or where the completion of contains subject matter in addition to the International Application, the application a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE ATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
				on is made by a person authorized under 37 C.F.R. 1.41(c) on behalf above named inventor(s).
π	he	deci	aration oi	oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).
				Showing that the filing is authorized. (not required unless called into question. 37 CFR 1.41(d))
				(Application Transmittel [4.4] _need 4 of 11)







6. Inventorship Statement

WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the

		submitted.
The	inve	entorship for all the claims in this application are:
	X	The same.
		or
		Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
		is submitted.
		will be submitted.
7. L	angu	age
NOT	Ai re	n application including a signed oath or declaration may be filed in a language other than English. The English translation of the non-English language application and the processing fee of \$130.00 equired by 37 CFR 1.17(b) is required to be filed with the application, or within such time as may be but by the Office. 37 CFR 1.52(d).
	X	English
		Non-English
		☐ The attached translation includes a statement that the translation is accurate. 37 C.F.R. 1.52(d).
8. A	ssigi	nment
		An assignment of the invention to
	_	☐ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTC 1595 is also attached.
		will follow.
NOT		f an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WAR	RNING	: A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-par application is filed by an assignee, Notice of April 30, 1993, 1150 O.G. 62-64

(Application Transmittal [4-1]—page 5 of 11)





9. Certifled Copy

Certified copy(ies) of application(s)

Country	App	oln. No.		Filed
Country	Apr	oln. No.		Filed
Country	App	oln. No.		Filed
from which priority is claimed	1			
is (are) attached.				
☐ will follow.				
NOTE: The foreign application for declaration, 37 CFR 1.55(a	ming the basis for a) and 1.63.	the claim for p	oriority must be	referred to in the oath or
NOTE: This item is for any foreign U.S. application or Internal 120 is itself entitled to pric PAGES FOR NEW APPLIC CLAIMED.	tional Application fr prity from a prior fo	rom which this a preign application	application clain on, then comple	ns benefit under 35 U.S.C. te item 18 on the ADDED
10. Fee Calculation (37 C.f	F.R. 1.16)			
A. X Regular application	1			
	CLAIMS	AS FILED		
Number filed	Number	Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$690.00
Total Claims (37 CFR 1.16(c)) 30 -	20 = 10	· ×	\$18.00	\$180.00
ndependent Claims (37 CFR 1.16(b)) 8 -	3 = 5	×	\$78.00	\$390.00
Multiple dependent claim(s), if any (37 CFR 1.16(d))		+	\$270.00	
☐ Amendment cance	lling extra clair	ns is enclos	ed.	
☐ Amendment deleting				
☐ Fee for extra claim				
NOTE: If the fees for extra claims a prior to the expiration of the notice of fee deficiency. 3	re not paid on filing he time period set	they must be p	aid or the claims	
	Filing Fee Calo	ulation		\$1,260.00
B. Design application (\$330.00—37 CFR	1.16(f))			
•	Filing Fee Calo	ulation		\$
C. Plant application (\$540.00—37 CFR	-			
•	Filing fee calcu	ulation		\$

(Application Transmittal [4-1]—page 6 of 11)





11. Small Entity Statement(s)

Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.

WARNING: "Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 C.F.R. § 1.28(a)(2).

(complete the following, if applicable)

	Status as a sm	all entity was	claimed in pric	or application	
	/		, filed on		from which benefit
	is being claime				
		119(e), 120, 121, 365(c),			
	and which sta	itus as a smal	ll entity is still	proper and des	sired.
	☐ A copy of	f the statemen	nt in the prior a	pplication is in	cluded.
-	Filing Fee	Calculation (50	% of A, B or (C above)	
		\$630.0	00		
a r		nths of the date	of timely payment		hed and a refund request two-month period is not
12. Requ	uest for Interna	tional-Type S	Search (37 C.F.	.R. 1.104(d))	
		(comple	ete, if applicab	le)	
	Please prepare when national				oplication at the time
			Ú	Application Transm	ittal [4-1]—page 7 of 11

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(Application Transmittal [4-1]—page 8 of 11)

13. Fe	e Payr	nent Being Made at This Time			
C	☐ Not	Enclosed		•	
		No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. 1.16 quently.)	S(e) c	an be	paid subse
	Enc	losed			
•	×	Filing fee		\$ 6	30.00
		Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)		\$.	
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. 1.47 and 1.17(i))		e	
		For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. 1.52(d) and 1.17(k))		Ψ.	
		Processing and retention fee (\$130.00; 37 C.F.R. 1.53(d) and 1.21(l))		\$. \$	
		Fee for international-type search report (\$40.00; 37 C.F.R. 1.21(e))		\$.	-
NOTE:	to comp and 1.7 filing fe	1.21(f) establishes a fee for processing and retaining any application olete the application pursuant to 37 CFR 1.53(f) and this, as well as 18(a)(1), indicate that in order to obtain the benefit of a prior U.S a must be paid, or the processing and retention fee of § 1.21(f) mution under § 53(f).	s the d Lappli est be	change: ication, paid, w	s to 37 CFR 1.5: either the basic ithin 1 year fron
		Total fees enclosed	\$_	630.	00 .1
		of Payment of Fees			
)	K Che	ock in the amount of $\$630.00$			
_		arge Account No.	in	the	amount o
		uplicate of this transmittal is attached.			
NOTE:	Fees sh	ould be itemized in such a manner that it is clear for which purpo	ise the	e fees a	ure paid. 37 CFF



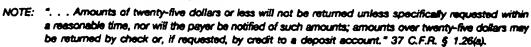


15. Authorization to Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed. WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized. The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 37 C.F.R. 1.16(a), (f) or (g) (filing fees) 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims) NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action. ☐ 37 C.F.R. 1.16(e) (surcharge for filling the basic filling fee and/or declaration on a date later than the filing date of the application) 37 C.F.R. §§ 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)). 37 C.F.R. 1.17 (application processing fees) NOTE: ". . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a

- constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).
 - 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))
- NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).
- NOTE: 37 CFR 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application \dots prior to paying, or at the time of paying, \dots the issue fee. . . . " From the wording of 37 CFR 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(Application Transmittal [4-1]-page 9 of 11)



	Credit Account	No.	
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X	Refund

Reg. No. 17,389

i. d.,

Tel. No. (216) 481-7772

Customer No.

SIGNATURE OF PRACTITIONER

Vincent A. Greene

(type or print name of attorney)

25931 Euclid Avenue, Suite 116

P.O. Address

Cleveland, Ohio 44132

(Application Transmittal [4-1]—page 10 of 11)





☐ Incorporation by reference of added pages

(check the following Item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)

PI	RIOR U.S. APPLICATION(S) CLAIMED)
X	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
	Number of pages added1
	Plus Added Pages for Papers Referred to in Item 4 Above
	Number of pages added
	Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
	Number of pages added
	Plus "Assignment Cover Letter Accompanying New Application"
	Number of pages added
State	ment Where No Further Pages Added
	no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)

·

This transmittal ends with this page.

(Application Transmittal [4-1]—page 11 of 11)



ADDED PAGE FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: See 37 CFR 1.78.

17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

Amend the specification by inserting	ng, before the first line, the following sentence:
A. 35 U.S.C. 119(e)	
applications must contain or be amended to the title a reference to each such prior provisi	benefit of one or more prior filed copending provisional contain in the first sentence of the specification following lonal application, identifying it as a provisional application, er (consisting of series code and serial number). 37 C.F.R.
This application claims the bene	fit of U.S. Provisional Application(s) No(s).:
APPLICATION NO(S).:	FILING DATE
60 / 116,940	January 23, 1999
/	
,	•

(Added Page for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed